

ABSTRACT OF THE DISCLOSURE

A flexible expandable sheet stent is intended for the better support of a diseased vessel wall on the basis of securing the very best characteristics and raising the serviceability of a stent in a vessel. The stent comprises constructive elements, preliminarily formed in the shape of a stencil on the thin sheet metallic blank surface. The stent's constructive elements include a saw-shaped profile made of teeth from which the relatively rigid band in the shape of consecutively-united pockets is formed. In a passage formed of consecutively-united pockets, a polymer thread with a fixed length loaded with medical preparations for local drug delivery is deployed. The implantation of the stent in a vessel under X-ray is performed in such a way as to locate the relatively rigid band of consecutively-united pockets on the side of the vessel wall adjoining the cardiac muscle.